

CATALYST FOR TRIMERIZATION REACTION OF ETHYLENE, AND METHOD OF TRIMERIZATION REACTION OF ETHYLENE USING THE SAME

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Abstract of JP2000176291

PROBLEM TO BE SOLVED: To obtain a catalyst for trimerization reaction of ethylene which enables 1-hexene to be prepared from ethylene in a good efficiency with high selectivity by constituting the catalyst of three components of a chromium complex facially coordinated with neutral multidentate ligands, an alkyl metal compound and an ionized ionic compound expressed by a specific formula.
SOLUTION: This ethylene trimerization catalyst consists of at least three components of a chromium complex facially coordinated with neutral multidentate ligands, an alkyl metal compound and an ionized ionic compound expressed by the formula (in the formula, [L]⁺ is a cation containing an element selected from groups 1, 7-11 and 14-16 in the periodic table, M1 is an element selected from groups 3 and 13 in the periodic table, each of R1 and R5 is a substituent having no hard base, and each of R2-R4 is a substituent). In this case, fluorine atom, chlorine atom, acyl group, alkoxy group or the like are listed as a hard base and, when these hard bases are contained in the substituent, the catalyst generates a problem such as increasing an amount of by-product polyethylene.

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